

HANFORD SITE

Environmental Restoration Contract *Monthly Performance Report*

December 2003

Accelerating Cleanup ...



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

ENVIRONMENTAL RESTORATION EXECUTIVE SUMMARY

December 2003 Monthly Report

SAFETY:

During the period October 1, 2003 through December 31, 2003, the ERC experienced 8 first aid incidents, 1 lost/restricted incident, and 1 lost away injury, which equates to having **91% of our workdays injury free**. In December, the ERC submitted the DOE-VPP Star Status application to RL. This application was forwarded to HQ on December 23. The ERC Team is actively preparing for the HQ on-site evaluation expected in the first quarter of CY 2004.

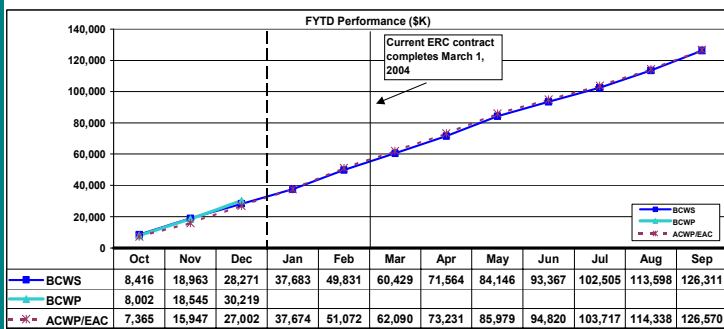
HIGHLIGHTS:

- Completed demolition of H Reactor transfer pits.
- Initiated demolition of H Reactor FSB floor.
- Closed out F Reactor ISS subcontract.
- Awarded 100 B/C Burial Grounds and Remaining Sites contract.
- Commenced remediation activities at 116-KW-1 Condensate Crib.
- Completed 300 Area regrading/backfill work at 618-4 Burial Ground, Landfills 1A/1D, and North Process Trenches.
- Excavated 978,544 bank cubic yards (BCY) (70.6% complete) since ERDF Cells 5/6 expansion project began on October 7.
- Received RL approval for the *100/300 Area River Corridor Baseline Risk Assessment: Basis and Assumptions on Project Scope report*.
- Initiated compilation of existing ecological data in support of 100/300 Area risk assessment work.
- Initiated shoreline radiation (gamma) surveys to collect data in support of risk assessment.
- Developed and transmitted quarterly RCRA Permit modifications to RL for submittal to Ecology by January 10.

UPCOMING KEY ACTIVITIES:

- Complete H Reactor FSB excavation - estimate 3/15/04.
- Complete 1304-N Emergency Dump Tank removal - 3/1/04.
- Commence remediation at 116-KE-1 Condensate Crib.
- Begin 618-7 Burial Ground field activities in March 2004.
- Complete treatment/disposal of depleted uranium chips-in-oil drummed waste by end of May 2004.
- Initiate startup of 100/300 Area General Work Plan preparation.
- Receive stakeholder comments on *Conceptual Site Model for 100 B/C Pilot Project Ecological Risk Assessment*

PERFORMANCE:



GREEN TEXT = AHEAD OF SCHEDULE
RED TEXT = BEHIND SCHEDULE

- SV:** \$1,948K; 6.9%. 300 Area regrade/backfill significantly ahead of schedule; treatment of uranium chips-in-oil drums ahead of schedule; offset by delayed start of 1304-N Dump Tank removal impacted by weather and contamination/fixative concerns.
- CV:** \$3,217K; 10.6%. Reduced miscellaneous support, equipment, material at H Reactor ISS due to discovering fewer fuel elements than anticipated; less engineering support for D Reactor; accruals understated for 300-FF-1, ERDF Transportation/Disposal, and treatment of uranium chips-in oil drums.

EAC TRENDS:

FYTD: \$258K

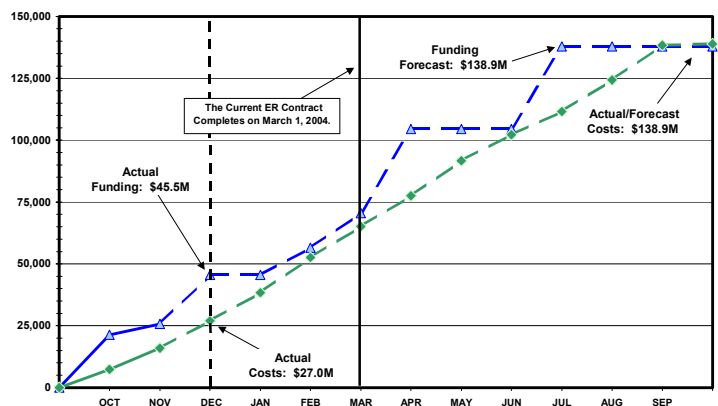
Current Month: \$894K

- Fewer resources expended on overall FDP Project.
- Increased cost for treatment/disposal of uranium chips-in-oil.
- Reorganization and staff reductions

TPA MILESTONES:

- 3 TPA milestones are scheduled for completion during FY04:
- M-16-03H, Complete 300 Area regrade (due 6/30/04); *forecast 3/1/04*.
- M-16-26E, Complete 100 B/C pipeline excavation (due 9/30/04); *completed 11/5/03*.
- M-93-11, Complete F Reactor ISS (due 9/30/04); *forecast 1/31/04; awaiting RL/EPA approval of S&M Plan*.

FUNDING:



PERFORMANCE INCENTIVES:

No approved PI's at this time.

ISSUES:

- Weather impacting several activities.
- Draft PI for demolishing H Reactor FSB by 2/14/04 not achievable.
- Unexpected contamination at 116-KW-1 Condensate Crib impacting schedule and budget.



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ENVIRONMENTAL RESTORATION FACILITIES DECOMMISSIONING PROJECT

December 2003 Monthly Report

SAFETY:

FYTD: 1 first aid; 0 recordable; 0 lost workday; 0 skin contaminations
Current Month: 1 first aid (slip/fall on ice), 1 occurrence report (RL-BHI-DND-2003-0012)

HIGHLIGHTS:

H Reactor:

- Completed packaging SNF into PAS-1 cask.
- Completed demolition of transfer pits.
- Initiated demolition of FSB floor.
- Shipped 87 waste containers to ERDF.

F Reactor:

- Issued project Final Report.
- Closed out ISS subcontract.

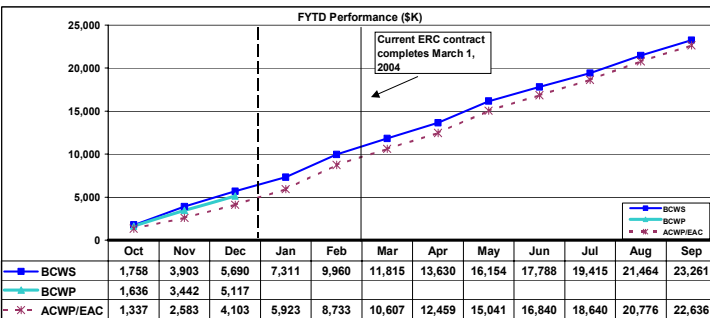
S&M:

- Performed site and facility S&M activities.

UPCOMING KEY ACTIVITIES:

- Issue F Reactor S&M Plan.
- Ship fuel pieces from H Reactor to K Basin in January.
- Complete H Reactor FSB excavation - estimate 3/15/04.
- Complete 1304-N Emergency Dump Tank removal - 3/1/04.

PERFORMANCE:



- SV:** (\$573K); (10.1%). Planned DWP completion date for 1304-N D&D not met (12/31/03) due to delayed start, contamination concerns/issues/fixative, weather impacts. Delayed start on B Reactor final configuration EE/CA. Sequencing of certain surveillances within the period.
- CV:** \$1,014K; 19.8%. Fewer resources required for 100 Area S&M and B Reactor hazards mitigation. Reduced miscellaneous support, equipment, material at H Reactor ISS due to discovering fewer fuel elements than anticipated; less engineering support for D Reactor; offset by increase in 1304-N dump tank mobilization equipment and weather delays, and need to apply fixative to tank internals.

EAC TRENDS:

FYTD: (\$625K)

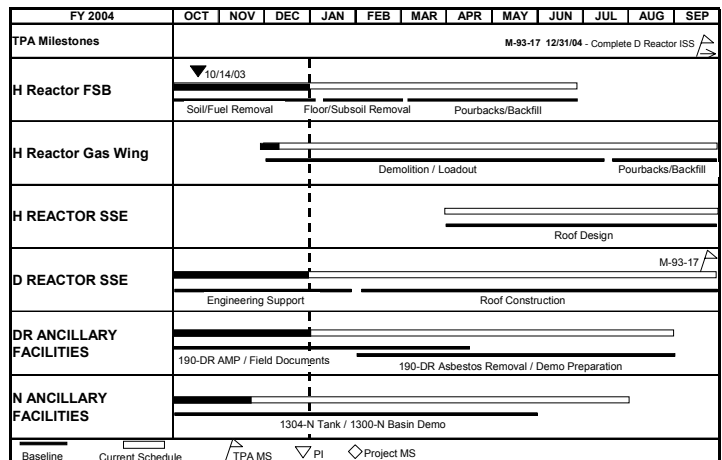
Current Month: (\$256K)

- Fewer resources expended on overall Project.

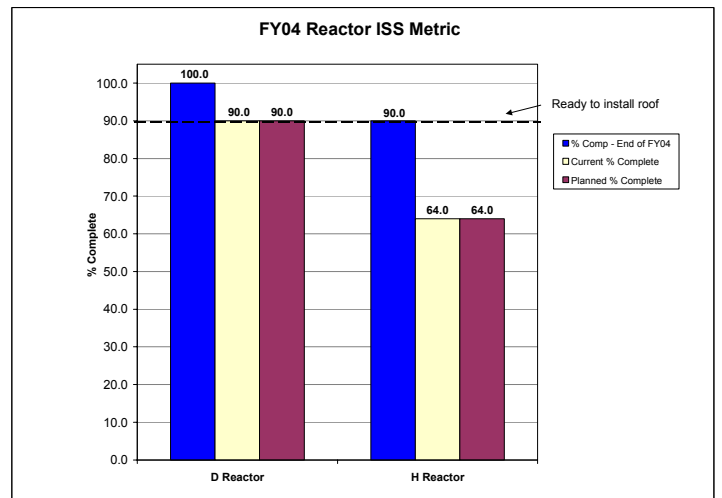
TPA MILESTONES:

- M-93-11, Complete F Reactor ISS (due 9/30/04); *forecast 1/31/04*. (Physical ISS work completed in August; awaiting RL/regulator approval of S&M Plan.)
- M-93-17, Complete D Reactor ISS (due 12/31/04); *forecast 9/30/04*.

SUMMARY SCHEDULE:



ISS METRIC:



PERFORMANCE INCENTIVES:

No approved PI's at this time.

ISSUES:

- Schedule slippage for FH to remove PAS-1 cask from H Basin.
- Draft PI on demolishing H Reactor FSB by 2/14/04 not achievable.
- Abnormally cold, snowy, windy weather impacting most outside jobs (H/D Reactor and 1304-N).
- B Reactor septic system removal included in RA workscope.

ENVIRONMENTAL RESTORATION REMEDIAL ACTION PROJECT

December 2003 Monthly Report

SAFETY:

FYTD: 3 first aids; 0 recordable; 0 lost workday cases
Current Month: None

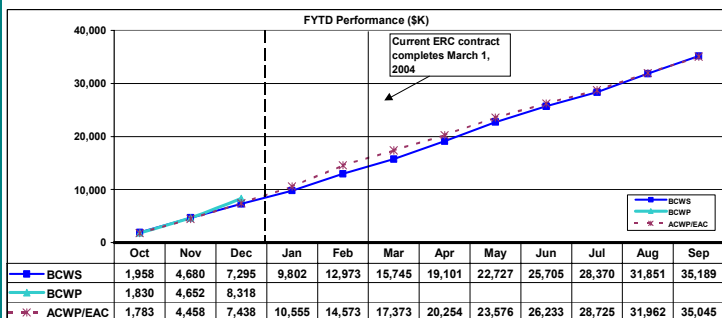
HIGHLIGHTS:

- Awarded 100 B/C Burial Grounds and Remaining Sites contract on December 18 to a small business; currently onsite and mobilizing.
- Continued backfill of 100 B/C pipelines; completion is scheduled for March 2004.
- Submitted CVP, Draft A, for pipelines north of B Avenue (100 B/C Area) to regulators for review.
- Commenced remediation activities at 116-KW-1 Condensate Crib.
- Completed 116-KW-3 draft CVP; review process is 20% complete.
- Completed 116-K-1 Crib variance/confirmation sampling; results indicate cleanup goals were achieved. Draft CVP is 98% complete.
- Continued excavation at 116-KE-4 Retention Basin and 100-KR pipelines.
- Withdrew 116-N-1 Crib RFP due to bidders' inability to acquire appropriate bonding. New RFP will be issued for "full and open competition" on January 5, 2004.
- Completed 300 Area regrading/backfill work at 618-4 Burial Ground, Landfills 1A and 1D, and North Process Trenches; approximately 58% of baseline work has been completed.
- Received regulator approval for 100 F Area Burial Ground Air Monitoring Plan.
- Continued supporting integrated team of FH/PNNL/ERC personnel working with Tri-Parties to develop strategy to address recent increase in river seep and groundwater concentration of hexavalent chromium in 100 D Area.

UPCOMING KEY ACTIVITIES:

- Commence remediation at 116-KE-1 Condensate Crib.
- Begin 618-7 Burial Ground field activities in March 2004.
- Begin sampling of 100-IU-2 and 100-IU-6 remaining sites in January 2004.
- Submit BCPs for accelerated scope at the 100 B/C miscellaneous remaining sites and 118-K-1 Burial Ground.

PERFORMANCE:



- SV:** \$1,022K; 14.0%. 300 Area regrade and backfill significantly ahead of schedule.
- CV:** \$880K; 10.6%. 300-FF-1 understated backfill accrual; partially offset by increased sampling costs in 100-BC-1 to support an accelerated CVP process.

EAC TRENDS:

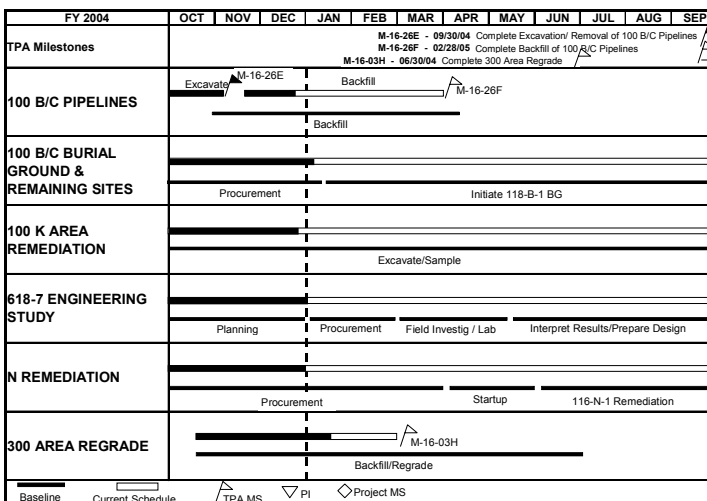
FYTD: (\$145K)
Current Month: (\$69K)

- Credit received for 100 N Area final subcontract settlement.

TPA MILESTONES:

- M-16-03H, Complete 300-FF-1 and 618-5 Burial Ground regrade (due 6/30/04); *forecast 3/1/04.*
- M-16-26E, Complete excavation/removal of 100 B/C pipelines (due 9/30/04); *complete 11/5/03, nearly 11 months ahead of schedule.*
- M-16-26F, Complete backfill of 100 B/C pipelines (due 2/28/05); *forecast 3/30/04.*

SUMMARY SCHEDULE:



PERFORMANCE INCENTIVES:

No approved PI's at this time.

ISSUES:

- Schedule impacts due to weather.
- Unexpected contamination at 116-KW-1 Condensate Crib impacting schedule and budget.

ENVIRONMENTAL RESTORATION WASTE OPERATIONS PROJECT

December 2003 Monthly Report

SAFETY:

FYTD: 3 first aids; 0 recordable; 0 lost workday cases
Current Month: 2 first aids (slip/fall on ice, trip/fall over orange cone)

Occurrences:

- Dropped roll-off container (RL-ERDF-2003-0007).
- Turnover of dump portion of Articulate Dump Truck (ADT) (RL-ERDF-2003-0008).

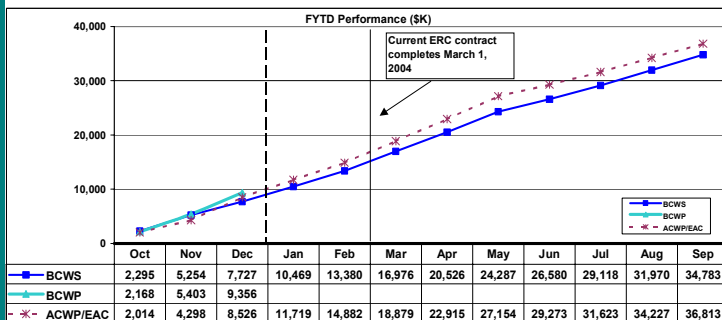
HIGHLIGHTS:

- Received 45,821 tons of waste at ERDF during December; 116,557 tons during FY04; 4,634,322 tons of contaminated material have been disposed in ERDF since operations began in July 1996.
- Completed mobilization of ERDF mix tank in preparation for receipt of wastes requiring stabilization of soluble constituents.
- Excavated 408,808 cubic yards at ERDF expansion Cells 5/6 in December. 978,544 cubic yards have been excavated to date; leaving 406,756 cubic yards to go. Completion of Cells 5/6 excavation is targeted for early February.
- Developed ERC Security Plan and provided training requirements to all ERC HAZMAT employees.

UPCOMING KEY ACTIVITIES:

- Complete treatment of depleted uranium chips-in-oil drummed waste (from 618-4 Burial Ground) that was sent to Oak Ridge in September. All treatment is expected to be complete by April 2004. Treated waste will be returned to ERDF for disposal. (M-16-03I).
- Complete bench-scale tests for treatment of 183-H Solar Basin waste. ERDF will begin receiving drummed waste requiring treatment; full-scale treatment will continue for several months.
- Begin receiving waste from 116-KW-1 and 116-KW-2 (K Area accelerated scope) that is expected to contain elevated levels of carbon-14. Waste will be treated at ERDF to immobilize carbon-14 prior to disposal.
- Complete excavation of Cells 5/6, construction of north and south berms, and admixture 90 performance test.
- Complete ERC Generator Verification / Certification (July – December 2003) for the CY 2003 Annual Dangerous Waste Report (ADWR). A preliminary review has been completed resulting in no findings.

PERFORMANCE:



- SV: \$1,630K; 21.1%. Treatment of uranium chips-in-oil drums ahead of schedule.
- CV: \$831K; 8.9%. Understated accruals for uranium chips-in-oil treatment, and ERDF Transportation/Disposal.

EAC TRENDS:

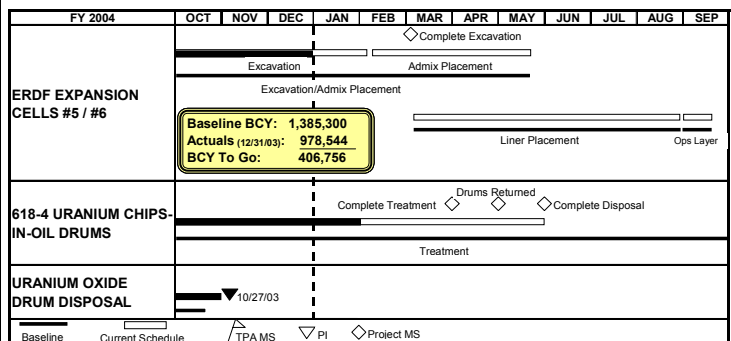
FYTD: \$2,031K
Current Month: \$1,635K

- Increased cost for treatment/disposal of uranium chips-in-oil.

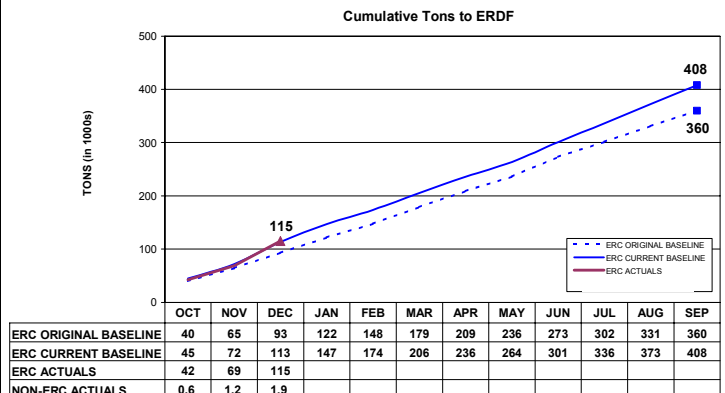
TPA MILESTONES:

- M-16-03I, Complete treatment of drummed waste from 618-4 Burial Ground (due TBD).

SUMMARY SCHEDULE:



ERDF TONNAGE:



PERFORMANCE INCENTIVES:

No approved PI's at this time.

ISSUES:

- Non-ERC Hanford Waste to ERDF. Evaluate the acceptance of Hanford Site waste disposal.
- Inclement weather impacts in December/January.

ENVIRONMENTAL RESTORATION RISK ASSESSMENT AND SITE CLOSURE PROJECT

December 2003 Monthly Report

SAFETY:

No first aid, recordable, or lost workday cases experienced FYTD.

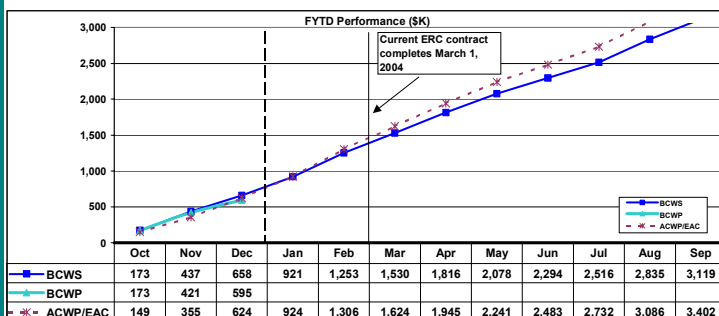
HIGHLIGHTS:

- Received RL approval on December 12 for the *100/300 Area River Corridor Baseline Risk Assessment: Basis and Assumptions on Project Scope report*.
- Approved BCP (\$705K) for accelerated and new RASC scope.
- Submitted *Public Involvement/Communications Plan for the 100 Area and 300 Area Component of the River Corridor Baseline Risk Assessment Project, Draft A*, on December 18 for regulatory review.
- Presented draft *Tribal Communications/Consultation Plan for the River Corridor Baseline Risk Assessment (RCBRA) Project* to Tribes for review and comment.
- Provided draft annotated outline for the 100/300 Area RCBRA General Work Plan to RL on December 12.
- Initiated compilation of existing ecological data in support of 100/300 Area risk assessment work.
- Initiated shoreline radiation (gamma) surveys on December 9 to collect data in support of risk assessment.
- Distributed *Conceptual Model for 100 B/C Pilot Project Ecological Risk Assessment* to RL, EPA, and Ecology for external review.
- Revising Data Quality Assessment (DQA) procedure to reflect improvements in CVP/DQA waste site closure documentation format.

UPCOMING KEY ACTIVITIES:

- Finalize *Public Involvement/Communications Plan for the 100 Area and 300 Area Component of the River Corridor Baseline Risk Assessment Project, Draft A*, per regulator review comments.
- Meet with Tribes for input on Tribal communications process.
- Initiate startup of General Work Plan preparation.
- Receive stakeholder comments on *Conceptual Model for 100 B/C Pilot Project Ecological Risk Assessment*.
- Establish Web page for River Corridor Baseline Risk Assessment Project.

PERFORMANCE:



- SV: (\$63K); (9.6%). Surveys were performed out of sequence and an activity should have been back-end resource loaded. Also, sample data management has delays; all are recoverable, no current impact.
- CV: (\$29K); (4.9%). Cost corrections will be made in January.

EAC TRENDS:

FYTD: \$283K

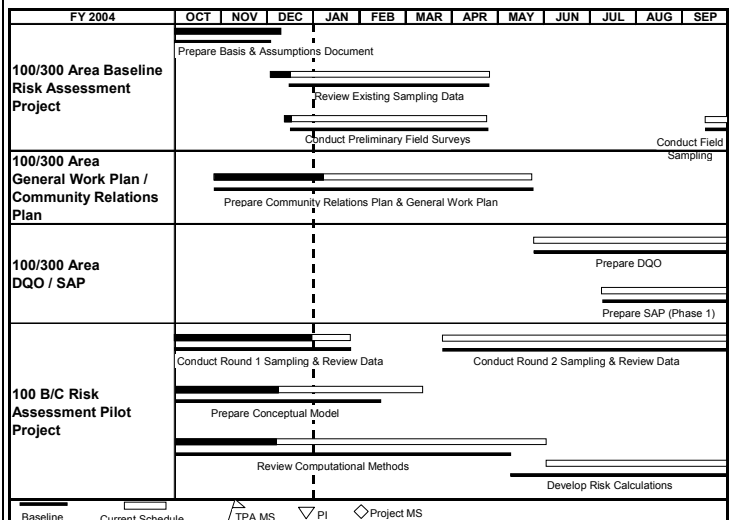
Current Month: \$29K

- Miscellaneous small trends.

TPA MILESTONES:

No FY04 milestones.

SUMMARY SCHEDULE:



PERFORMANCE INCENTIVES:

No approved PI's at this time.

ISSUES:

Activities delayed due to snow cover (January issues):

- 100/300 Area gamma surveys
- Herbicide applications



ENVIRONMENTAL RESTORATION PROGRAM MANAGEMENT AND SUPPORT PROJECT

December 2003 Monthly Report

SAFETY:

No first aid, recordable, or lost workday cases experienced FYTD.

HIGHLIGHTS:

Safety and Health:

- Completed and submitted the VPP Star Status application to RL on December 19.
- Developed the ERC Task Safety Analysis tool with Field Support leading the project. This tool is based on the Bechtel "STARRT card" system, and supplements the Job Hazard Analysis (JHA) to provide a system for craft workers to focus on, and identify, hazards before starting a task.

Technical Services:

- Developed and transmitted quarterly RCRA Permit modifications to RL for subsequent submittal to Ecology by January 10.
- Submitted ERC input to Fluor Hanford (FH) for the Hanford Air Operating Permit Semi-Annual Report.
- Prepared information for Annual Emergency Planning and Community Right-to-Know Act of 1986 Tier II Report and submitted the input to FH for inclusion in the Hanford Site-wide report.

UPCOMING KEY ACTIVITIES:

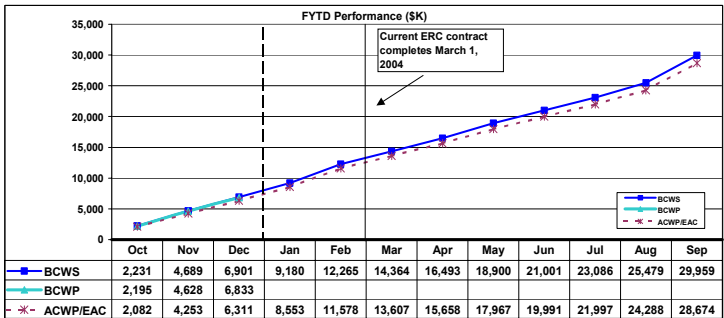
Safety and Health:

- RadCon is preparing for a follow-up assessment by RL in February. This assessment will gauge the success of our response to the "RadCon Surveys" assessment performed in the summer of 2003 (A-03-SHQ-GENAREAS-002).
- Submit an updated revision of the ERC ISMS Description by February 13, as directed by RL

Technical Services:

- Certification and submittal of Tier II Report to outside agencies by March 2004.
- Submittal of Hanford RCRA Permit Renewal Application due to Ecology in March 2004.

PERFORMANCE:



- **SV:** (\$68K); (1.0%). N/A
- **CV:** \$522K; 7.6%.
- **Safety and Health:**
 - RadCon scope continuing at minimum compliance level supported by existing resources.
- **Technical Services:**
 - Underruns in field sampling/analysis and regulatory support due to more direct project support.
- **ARQP:**
 - Lost full-time manager and 3 staff. CATS support is continuing at minimum levels, 5 ISMS metrics and quarterly trend activities not being updated and reported. Recovery plan is being implemented.

EAC TRENDS:

FYTD: (\$1,286K)

Current Month: (\$446K)

- External Affairs reorganization and staff reduction.

PERFORMANCE INCENTIVES:

No approved PI's at this time.

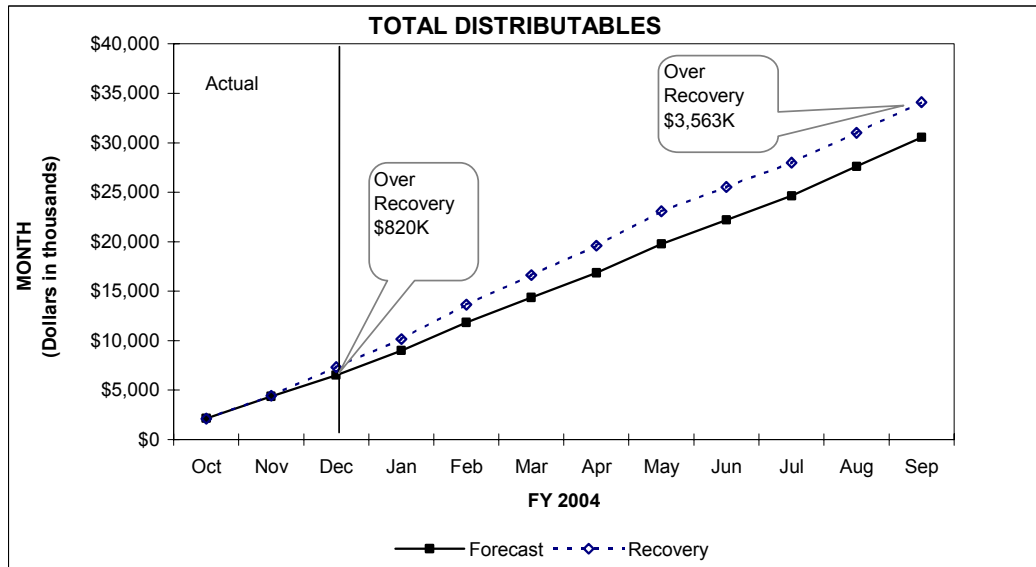
ISSUES:

None at this time.

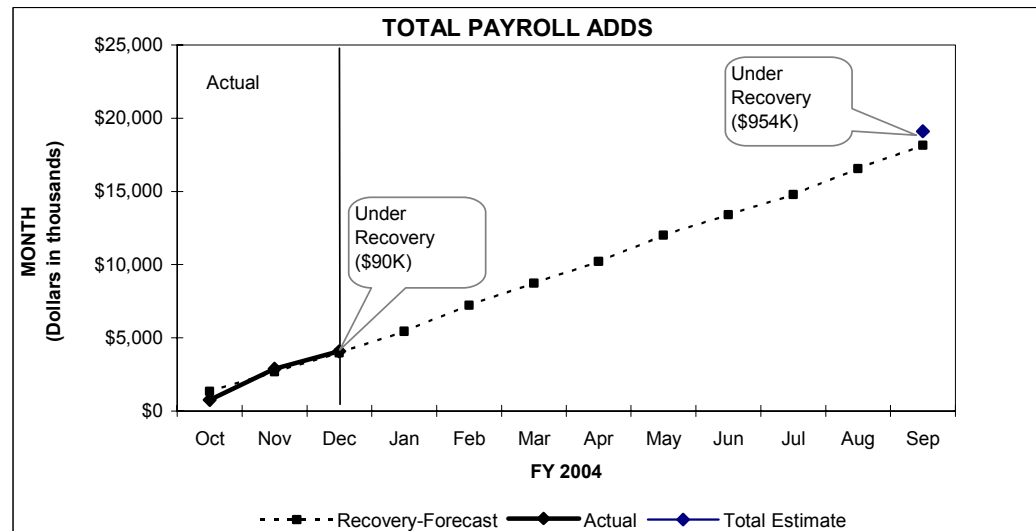


ENVIRONMENTAL RESTORATION RECOVERY

December 2003 Monthly Report



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
	Act	Act	Act	Fcst	Fcst	Fcst	Fcst	Fcst	Fcst	Fcst	Fcst	Fcst	
Budget	2,289	2,801	2,242	2,530	2,909	2,603	2,613	3,080	2,536	2,489	3,134	2,964	32,191
Forecast	2,132	2,235	2,143	2,494	2,841	2,508	2,498	2,927	2,427	2,415	2,979	2,927	30,527
Recovery	2,113	2,310	2,908	2,839	3,473	2,967	2,983	3,469	2,466	2,459	3,025	3,078	34,090
Over/Under Recovery													
Monthly	-20	75	765	345	632	459	485	542	40	44	46	151	3,563
Cum	-20	55	820	1,165	1,797	2,256	2,741	3,283	3,322	3,366	3,413	3,563	



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Recovery-Budget	1,410	1,790	1,437	1,457	1,814	1,533	1,533	1,869	1,436	1,411	1,853	1,685	19,228
Recovery-Forecast	1,347	1,329	1,298	1,459	1,785	1,499	1,491	1,791	1,401	1,379	1,776	1,590	18,146
Actual	761	2,117	1,187										19,100
Over/Under Recovery													
Monthly	586	-788	111										
Cum	586	-202	-90										-954



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